



EPA Region 5 Records Ctr.



352025

Joseph Orthaeter D.V.M., M.P.H., M.A.P.A.  
Public Health Administrator  
Phone 962-5092

September 30, 1985

*Bob K,  
I feel that upper  
management decisions  
need to be made on addressing  
this problem. This problem  
is of concern to all Divisions.  
-Monte  
10/4*

Monte Nienkerk  
Groundwater Advisor Control  
IEPA  
2200 Churchill Rd.  
Springfield, IL 62706

*9:30 10/16 Reed*

Re: Groundwater Contamination by VOC's - Rockton, IL

Dear Mr. Nienkerk:

This is to transmit our concern and interpretation of the groundwater data that has accumulated on this groundwater contamination problem since it was identified in May 1982. I have enclosed a summary of the groundwater quality data and a map depicting groundwater contours and VOC contamination findings. The contours were developed from elevations established by consultants for Beloit Corporation. It is evident that groundwater flow in this study area is to the south-southwest.

Comparison of the location of problems on Watts Avenue versus the problem on Beloit Corporation property (monitoring wells 3 and 5) indicates they are on different flow paths, thus the interpretation that there may be two distinct sources. In addition, the monitoring wells on Beloit property (3 and 5) indicate that the predominate contaminants are 1,1,1-trichloroethane and trichloroethylene. In the case of the residual wells on Watts Avenue (900 block) the predominate contaminants are 1,1,1-trichloroethane, 1,1-dichloroethane, and 1,1-dichloroethylene. This further supports the likelihood of two separate sources (plumes) and the need to document the origin of these pollutants.

As the contaminated groundwater continues to migrate along the flow paths involved in this situation, the wells on Dr. and Mrs. Trull's property (900 N. Praire) will undoubtedly be influenced. Thus it is imperative to continue to monitor these wells for levels of volatile organic chemicals (VOC's) and that every effort be made by the Beloit Corporation and/or your agency in conducting an investigation that would establish a source(s) for these contaminants and to undertake a remedial action plan before these contaminants spread further.

It is hoped that the necessary resources can be identified to carry out a successful resolution of this matter. If you have any questions regarding any of this, please let me know.

Respectfully,

*J. Marché Bacon*  
J. Marché Bacon, M.P.H., R.S.  
Director, Environmental Health

RECEIVED  
SEP 30 1985

JMB/jb  
Enc.

cc: Dr. Richard J. Carlson, Director  
IEPA

Robert Kuykendall, Mngr.  
Land - IEPA

COMPOUNDS  
(ppb)

LOCATION  
(DATE OF SAMPLES)

COMPOUNDS (ppb)	Ethylbenzene	Tetrachloroethane	Tetrachloroethylene	Carbon Tetrachloride	Trichloroethylene	1,1,1 Trichloroethane	Chloroform	Trans 1,2 Dichloroethylene	1,1 Dichloroethylene	1,1 Dichloroethane	1,2 Dichloroethane	Methylene Chloride	TOTAL (ppb)
Beloit Corp MW #1 May 17, 1984 (Warzyn Engineering, Inc.)										10			10
Sept. 17, 1984 (IDPH Lab)			5		2	9				2			18
Beloit Corp MW #2 Sept. 16, 1984 (IDPH Lab)	tr				tr	2							2
Beloit Corp MW #3 May 16, 1984 (Warzyn Engineering, Inc.)					89	47							13
Sept. 17, 1984 (IDPH Lab)			13	160	16					2		19	21
Beloit Corp MW #4 Sept. 17, 1984 (IDPH Lab)		tr										1	1
Beloit Corp MW #5 May 17, 1984 (Warzyn Engineering, Inc.)			12		35	340							38
Sept. 17, 1984 (IDPH Lab)			1		84	41			5	9		tr	13
Beloit Corp MW #6 Sept. 17, 1984 (IDPH Lab)					tr								—
Beloit Corp MW #7 Sept. 17, 1984 (IDPH Lab)						1							1
Beloit Corp MW #8 Sept. 17, 1984 (IDPH Lab)			1		2	tr				1			5
Beloit Corp MW #9 Sept. 17, 1984 (IDPH Lab)			2		2	2		2					0
Beloit Corp MW #10 Sept. 17, 1984 (IDPH Lab)			tr									5	5
Beloit Corp EPA MW #11 Sept. 17, 1984 (IDPH Lab) RECEIVED												tr	—
Beloit Corp EPA MW #102 Sept. 17, 1984 (IDPH Lab) EPA REC'D												1	1
908 N. Blackhawk May 8, 1984 (IDPH Lab)						5		1					6
Beloit Corp EPA MW #101			tr			1							1

COMPOUNDS  
(ppb)

LOCATION  
(DATE OF SAMPLES)

COMPOUNDS (ppb)	Ethylbenzene	Tetrachloroethane	Tetrachloroethylene	Carbon Tetrachloride	Trichloroethylene	1,1,1 Trichloroethane	Chloroform	Trans 1,2 Dichloroethylene	1,1 Dichloroethylene	1,1 Dichloroethane	1,2 Dichloroethane	TOTAL (ppb)
905 Watts Ave. June 8, 1983 (IDPH Lab)					4				3			7
Jan. 24, 1984 (IDPH Lab)		3			2	1						6
May 8, 1984 (IDPH Lab)		1			1							2
Sept. 18, 1984 (IDPH Lab)			1		2							3
909 Watts Ave. May 8, 1984 (IDPH Lab)					5		1					6
Sept. 18, 1984 (IDPH Lab)			2		3		1	tr	17			2
910 Watts Ave. May 28, 1982 Vial 1 (San Dist. Lab) Vial 2					954 482			45				9
Dec. 8, 1982 (IEPA Lab)					120				5			12
June 8, 1983 (IEPA Lab)					2	220			6		1	2
Jan. 24, 1984 (IDPH Lab)					1	105		33	15			15
May 8, 1984 (IDPH Lab)		1			142			tr	12			15
Sept. 18, 1984 (IDPH Lab)		51			3	105		177	19			3
913 Watts Ave. Dec. 8, 1982 (IEPA Lab)					2							2
914 Watts Ave. May 27, 1982 Vial 1 (San Dist. Lab) Vial 2						95 100						9
Dec. 8, 1982 (IEPA Lab)						31						3
June 8, 1983 (IEPA Lab)						32						3
Jan. 24, 1984 (IDPH Lab)						19		24	2			4
May 8, 1984 (IDPH Lab)						22		72	2			9
Sept. 18, 1984 (IDPH Lab)					1	20		48	0			7

RECEIVED

MAY 13 1984

LABORATORY

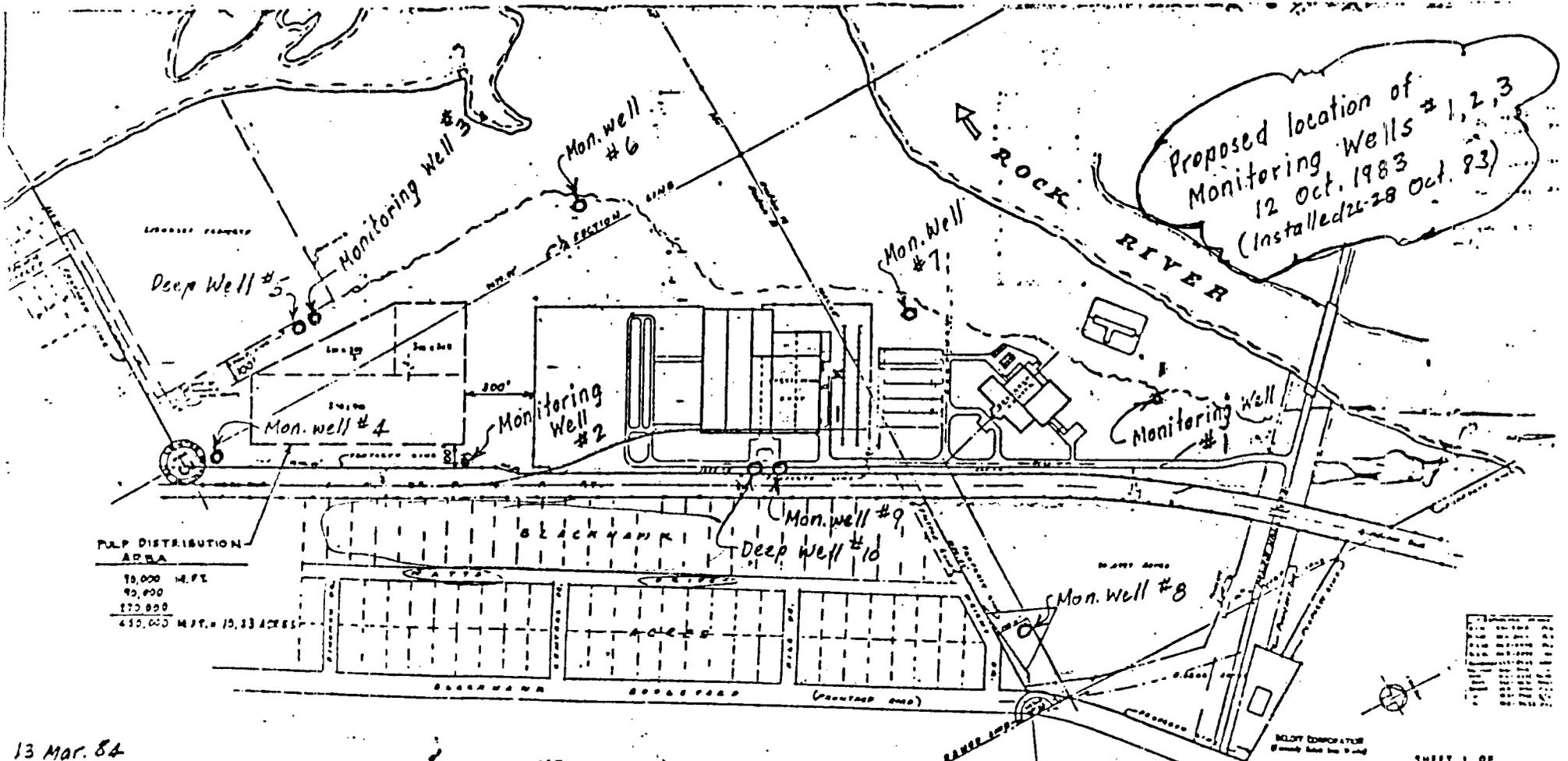
COMPOUNDS (ppb)	ETHYLBENZENE	TETRACHLOROETHANE	TETRACHLOROETHYLENE	CARBON TETRACHLORIDE	TRICHLOROETHYLENE	1,1,1 TRICHLOROETHANE	CHLOROFORM	TRANS 1,2 DICHLOROETHYLENE	1,1 DICHLOROETHANE	1,2 DICHLOROETHANE	TOTAL (ppb)
Watts Ave. Dec. 8, 1982 (IEPA Lab)						197					197
June 8, 1983 (IEPA Lab)						370			4		374
Jan. 24, 1984 (IDPH Lab)			tr	tr	175				16		191
May 8, 1984 (IDPH Lab)					47			86	4		137
Sept. 18, 1984 (IDPH Lab)		3			50			52	17		122
Watts Ave. June 8, 1983 (IEPA Lab)						2					2
Jan. 24, 1984 (IDPH Lab)					1	4			11		16
May 8, 1984 (IDPH Lab)						3		23			26
Sept. 18, 1984 (IDPH Lab)			tr			2		21			23

REC

1983

1984

BELOIT CORP. ROCKTON



Proposed location of  
Monitoring Wells #1, 2, 3  
12 Oct. 1983  
(Installed 28 Oct. 83)

PULP DISTRIBUTION  
AREA  
18,000 S.F.  
95,000  
170,000  
452,000 S.F. = 10.33 ACRES

13 Mar. 84  
12 Oct. 83

REVISIONS										PROJECT DATA									
NO.	DATE	BY	DESCRIPTION	NO.	DATE	BY	DESCRIPTION	NO.	DATE	BY	DESCRIPTION	NO.	DATE	BY	DESCRIPTION	NO.	DATE	BY	DESCRIPTION
1				1				1				1				1			

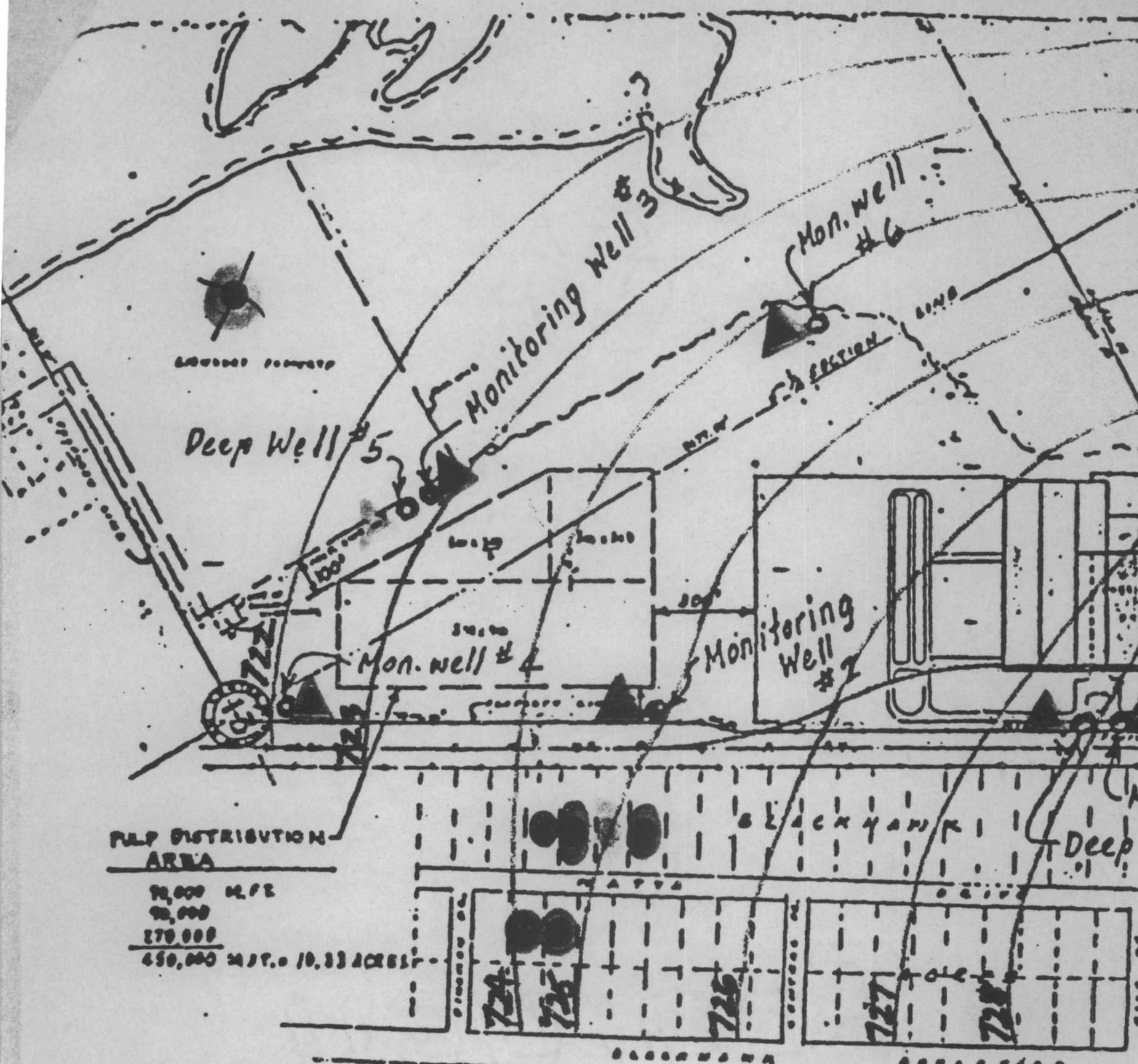
RECEIVED  
REGION 1 D.W.P.C.

APR 8 1984

ENVIRONMENTAL PROTECTION AGENCY  
STATE OF ILLINOIS

Proposed - 13 March 1984  
Add'l. Monitor. Wells: 4, 6, 7, 8, 9  
Deep Wells: 5, 10.

BELOIT



PLP DISTRIBUTION AREA  
 70,000 sq. ft.  
 75,000  
 170,000  
 450,000 sq. ft. = 10.33 acres

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OCT 03 1985

IEPA-DI PC

3 MAR. 84  
OCT. 83

~~RECEIVED~~  
 REGION 1 D.W.P.C.

APR 3 1984

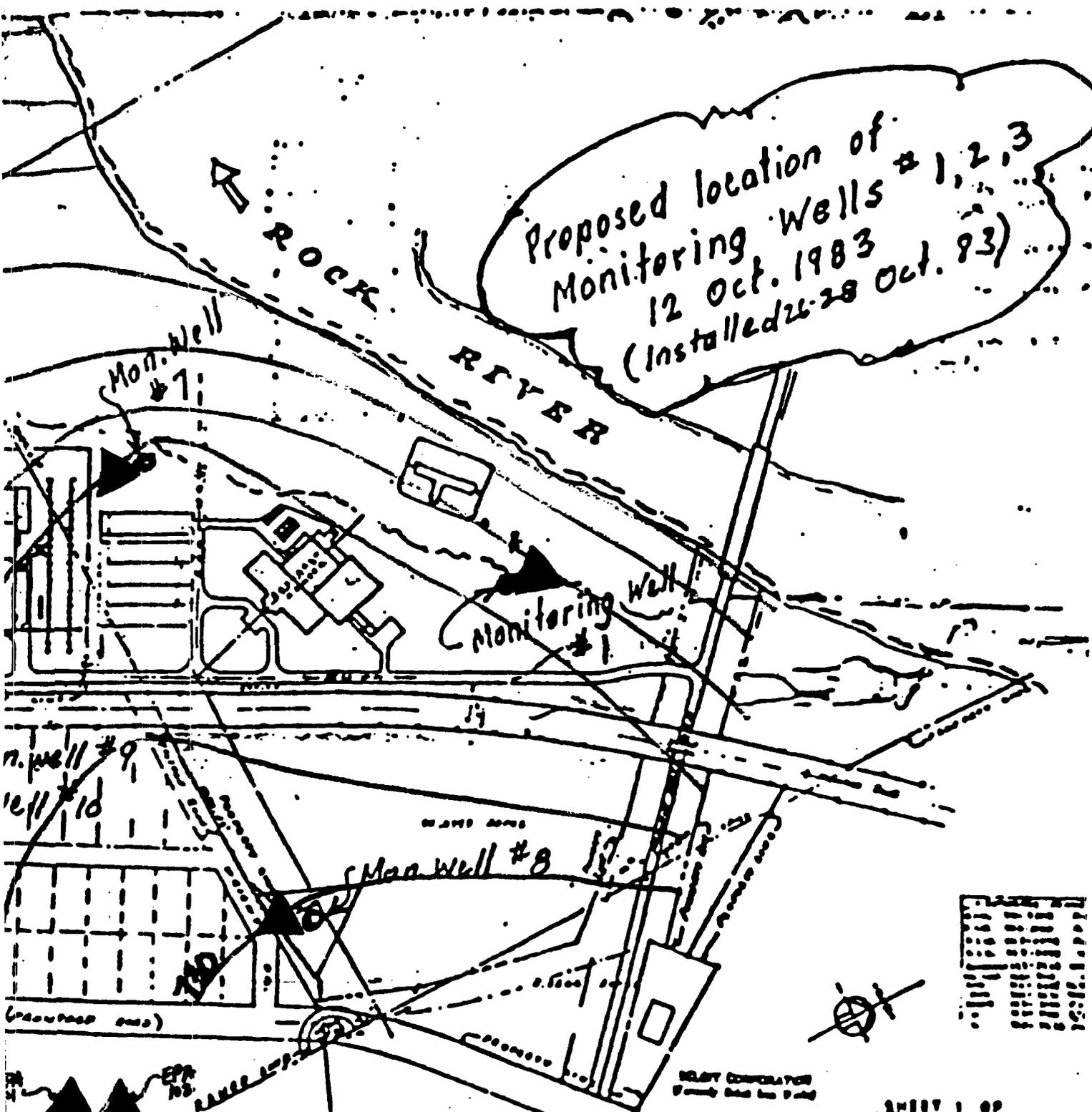
# LEGEND

- less than 10 ppb
- 10-100 ppb
- 101-200 ppb
- greater than 200 ppb
- negative results

- ▲ monitoring well
- private well
- ▲ sampled 9-17-84
- sampled 9-18-84

CORP.

KOCKTON



DELOIT IRON WORKS	
1151	
INITIAL PLAN DELOIT SOLUTION PROJECT	
553-3577	NOV 1 1984

Proposed - 13 March 1984  
 Add'l. Monitor. Wells: 4, 6, 7, 8, 9